

## CLAIMS

What is claimed is:

- 1 1. A method for augmenting a debugger having debugging functionality used to debug a  
2 first program, comprising the steps of:  
3 providing the debugger;  
4 providing a second program having second-program functionality; and  
5 providing integration code for  
6 analyzing commands used to debug the first program, and  
7 invoking appropriate pieces of code to perform tasks in responding to  
8 such commands;  
9 wherein the appropriate pieces of code are selected from one or a combination  
10 of  
11 functionality provided in a library,  
12 the debugging functionality, and  
13 the second-program functionality.
- 1 2. The method of claim 1 further comprises the step of using an instrumentor as the  
2 second program.
- 1 3. The method of claim 1 further comprises the step of using a first piece of code having  
2 the appropriate pieces of code to perform the tasks.

1 4. The method of claim 3 further comprises the step of making the first piece of code an  
2 executable part of the first program.

1 5. The method of claim 3 further comprises the step of using a trampoline as the first  
2 piece of code.

1 6. The method of claim 1 wherein the commands are selected from one or a  
2 combination of:

3 input from a user using the debugger;  
4 a script file associated with the first program; and  
5 a configuration file associated the first program.

1 7. The method of claim 1 further comprises the step of inputting the commands at a  
2 debugging prompt provided by the debugger.

1 8. The method of claim 1 further comprises the steps of:  
2 integrating the debugger, the instrumentor, and the integration code into a  
3 combined code; and  
4 embedding the combined code into a language environment.

1 9. The method of claim 8 further comprises the step of using the Integrated Development  
2 Environment as the language environment.

- 1 10. A system for augmenting a debugger having debugging functionality used to debug a  
2 first program, comprising:  
3 the debugger;  
4 a second program having second-program functionality; and  
5 integration code for  
6 analyzing commands used to debug the first program, and  
7 invoking appropriate pieces of code to perform tasks in responding to  
8 such commands;  
9 wherein the appropriate pieces of code are selected from one or a combination  
10 of  
11 functionality provided in a library,  
12 the debugging functionality, and  
13 the second-program functionality.
- 1 11. The system of claim 10 further comprises an instrumentor used as the second  
2 program.
- 1 12. The system of claim 10 further comprises a first piece of code having the appropriate  
2 pieces of code to perform the tasks.
- 1 13. The system of claim 12 wherein the first piece of code is an executable part of the first  
2 program.
- 1 14. The system of claim 12 wherein a trampoline is used as the first piece of code.

1 15. The system of claim 10 wherein the commands are selected from one or a  
 2 combination of:  
 3 input from a user using the debugger;  
 4 a script file associated with the first program; and  
 5 a configuration file associated the first program.

1 16. The system of claim 10 wherein the commands are input at a debugging prompt  
 2 provided by the debugger.

1 17. The system of claim 10 wherein:  
 2 the debugger, the instrumentor, and the integration code are integrated into a  
 3 combined code; and  
 4 the combined code is embedded in a language environment.

1 18. The system of claim 17 wherein the Integrated Development Environment is used as  
 2 the language environment.

1 19. A computer-readable medium embodying instructions that cause a computer to  
 2 perform a method for augmenting a debugger having debugging functionality used to  
 3 debug a first program, the method comprising the steps of:  
 4 providing the debugger;  
 5 providing a second program having second-program functionality; and  
 6 providing integration code for  
 7 analyzing commands used to debug the first program, and

